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THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS

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CLASSIVICATION AND ADMINISTRATION OF AUTOMOBILE ROADS IN THE USER

Classification

All the automobile roads of the Soviet Union are divided into classes, depending upon their importance within the state (state classification) and upon their technical character (technical classification).

State classification is the division of automobile roads according to their importance in the national economy on the basis of their economic, administrative and political, and defense value.

The economic importance of roads is determined by the: (a) geographical location of the road; (b) relative importance of freight traffic in the general economy of the country; (c) density of freight traffic; and (d) character and type of traffic.

The administrative and political importance of roads is evaluated according to the characteristics of the centers joined by them such as: administrative, industrial, cultural. newly-populated districts, resorts. etc.

The defense value of roads is determined by their role in the system of defense. setablished by the Ministry of the Armed Forces.

On the basis of the above-listed three characteristics, all the automobile roads in the USER are divided into six classes, shown in Table 1.

Technical electification is the division of automobile roads into classes with definite technical standards which are based on technical and economical criteria. Besic technical and economical eriteria for the technical classification of automobile roads are: (a) estimated speed of traffic: (b) width of the stad's basic elements (ground foundation, traffic lanes, shoulders); (c) leading and clearance of artificial constructions (structures); and (d) width of the safety some.

Other technical criveria. such as construction and type of surface are determined by computing the load of traffic and presence of local materials. The range of visibility, the longitudinal grade and the radii of horizontal

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end vertical curves are dependent upon the estimated speed of traffic.

Automobile roads in the USSR are divided into five technical classes, according to their technical and economic criteria, as shown in Table 2.

Technical classification of newly-constructed or repaired roads is made by an organization, which assigns the experiments, or approves the project, and classifies the road as to state classification. Departmental roads, which are public roads, are classified in a cartain technical class in accordance with road organizations, not lower than the oblast scale. In selecting the technical class of a road, it is necessary to study the economic criteria (rate of traffic).

A road may be built or reconstructed along its entire length under one technical classification; on the other hand, various sections may be built under different technical classifications, depending upon the topography of the district. The technical and economical criteria and the conditions of its use.

The speeds indicated in Table 2 are estimated for determining the corresponding widths of shoulder traffic lane, and roadbed under normal conditions. In certain, especially difficult sections in mountainous districts, and within populated areas, estimated speeds may be lowered with the permission of the authority approving the project. The same authority establishes the minimum length of these sections.

When clides are possible, or when broken-down cars are parked along the road, or when laying the ground foundation (roadbod) is difficult, the widths indicated in Table 2 (in mountainous or populated aross), and the widths of seculders for Class I or II roads, may be lowered to one meter. For Class II, to V roads up to 0.5 meter, the corresponding minimum width of the roadbod, may be: Class I roads, 14 meters, or 2x9 meters; Class II, 9 meters; Class III, 7 meters; Class IV, 6.5 muters; and Class V, 5.5 meters. The type of surface for each class of road is determined on the basis of stross and speed of traffic.

B. Administration

The administration of automobile roads of Union importance is carried out by the Main Administration of Surfaced Roads (Gushosdor) of the Ministry of Internal Affairs USSR. Other roads are managed by the various responsible authorities, the main road administrations in the Soviets of Ministers of the Union Ropublics with the exception of state roads belonging to specific enterprises and farms.

The system of administration and operation of the security and inspection service for repair and upkeep of roads is shown in Table 5.

The lengths and categories of rold sections (DU) on the roads of the Gusboader system are determined by estimating the volume of traffic on the roads and the types of surfaces (Table 4).

In especially important sections (approaches to large cities, mountainous areas, surface widths over 6 meters, etc.) the length of the section is shortened but not by more than 25 percent, at the same time its category is raised.

The length of road stretches is also dependent on the type of surface and rate of traffic (Table 5).

In road widths over 7 meters in mountainous districts, in approaches to large cities, etc., the length of the distance is diminished, but not by more than 25 percent. Bridge stretches are determined in bridge lengths over 500 meters.

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The length of maintenance strips (by passes) on improved roads is 3-4 km. on stone surface roads 4-5 km, and on ground surface roads 5-8 km.

At present the organizational breakdown within the Gushosdor operates as follows:

Building control -- for each independent objective.

Building regions -- for $30-70~\mathrm{km}$ of road, depending upon the size and complexity of the work.

Stretch -- 10-20 km of road, depending upon the size and type of the work.

Foreman's selections -- 10-15 km of road, or separate, large, artificial constructions.

Table 1. State Classification of Roads

State Roads (Roads of Union importance)

- 1. Roads joining centers of Union republics or especially large industrial and cultural centers of the USSR
- 2. Reads, joining economic regions of Union importance, or their administrative centers, between which there is a heavy freight or passenger traffic for controlling a given territory or for further development of a network.
 - 3. Basic network of roads important to defense.
- 4. Roads joining resorts of Union importance, and connecting them with railroad stations and piers.
- 5. Roads serving international trade exchange and passenger traffic, and connecting large centers of the USSR with large centers of neighboring states.

Republic Hoads

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- 1. Rouds connecting main administrative, cultural, economic, and political centers of autonomous republics, kray, and oblast with the centers of a Union republic and with each other.
- Roads serving freight and passenger traffic between points, located in different autonomous republics, kray, and oblast, and because of their character and heavy traffic having special economic importance for the Union republic.
- Roads connecting centers of extracting and processing industry, and connecting resorts of importance to the entire Union republic with the nearest railroad stations and piers.

Oblast Roads (Includes kray, autonomous republic, etc.)

1. Roads commecting rayon centers with the center of their own autonomous republic, kray, or oblast.

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- 2. Rocas serving traffic between points in different rayons, and which, because of their character and heavy traffic, have special economic importance for the autonomous republic, rayon, or oblast.
- 3. Roads connecting centers of extracting and processing industry, base storage points, rescrite, senstoriums which are important to the whole entonomous republic, kray, or oblast with the nearest railroad stations and piers.

Rayon Roads

- 1. Roads connecting rayon centers with each other and with village sowlets.
- 2. Roads, having a special occurance significance for the rayon because of their nature and heavy traffic.
- Roads connecting machine-tractor stations, machine-maintenance points, and storage points with rayon centers, railroad stations, and piers.

Village Roads

Roads commecting villages, sowhoz, and kolkhoz with each other and with village soviets and machine-tractor stations and machine-maintenance points with interior storage points.

Departmental Foads

- 1. Roads of interior economy, passing through the territory allotted to an enterprise (plant, sowkhoz, storing point, oil base, etc.)
- 2. Roads connecting enterprises with the general network of roads and primarily serving the needs of the enterprise.

Table 2. Technical Classification of Roads (Planned)

| Technical Classification | | | <u>r</u> | | |
|--------------------------------------|-----------|-----|----------|-----|------|
| Technical and Economical Criteria | I | II | III | IV | A |
| Estimated speed, (km/hr) | 120 | 100 | eu | 60 | 40 |
| Width of the shoulder, (m) | 3 | 2.5 | 2.5 | 2.5 | 2.0 |
| Width of the traffic lane, (m) | 2x'7 | 7 | 6 | 5.5 | 15.5 |
| Width of ground foundation (readbed) |) | | | | _ |
| (m) | 2713 or | 12 | 11 | l(| 8.5 |
| • | not less | | | | |
| | than 23 m | | | | |

Estimated Loading of Artificial Structures:

| e. b | Netal, reinforced concrete, a stone | nd N-13 and N-60 | N-15 and N-60 | N-60 | N-10 and N-60 N-8 and N-30 | H-10 and H-60 N-8 end H-30 | |
|---------|-------------------------------------|------------------------|------------------|-------------|-------------------------------------|-------------------------------------|--|
| Br | idge Clearances | | | | | | |
| e. | Normal | 2x G-7 | 0-7 | 0-6 | 0-6 | e. | |
| ъ | Vi čeneč | * | UG-10 | UG-9 | 10G-8 | * | |

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Not atandardized according to the given classification

| : liv : | Technical Standards | Tallas Villag | Toch | nical Clas | sificatio | |
|----------|---|-----------------------|---------------------|---------------------|------------------|----------------|
| 1. | Radii of Curves in Hori- zontal Planes (in m). | , 1 | II | III | 14 | ₩ |
| 6. 6. | Basic estimate | 2,400 1,600 500 | 1,600 800 300 | 1,000 400 200 | 500 180 80 | 20 45 25 |
| 2. | Longitudinal Grade (in \$) | | | | | |
| C. 6 | Exceptional | 3 4 4 | 14 5 4 | 5 6 5 | 6 7.5 6 | 7.5 9 6 |
| 3. | Visibility Range (in m) | | | | | |
| e. b. | • | 160 160 | 150 75 | 90 45 | 50 25 | 30 15 |
| 4. | Reddi of Vertical Curves (| in m) | | | | |
| a. | | 2,500 | 1,000 | 600 | 250 | 60 |
| , | from to | 2,500 10,000 | 1,000 2,500 | | 250 | 60 |

Table 3. Organization of Road Administration

| Roadi | ഷ | 'Inton | Importance |
|-------|---|--------|------------|

Roads of Republic, Oblast, and Rayon Importance

- I. Main Administration of Surfaced Roads of Ministry of Internal Affairs USSP
- I. Main Road Administrations Glavdorupry of Soviet of Ministers of Union Republica
- IIa. Administrations and sections of hard surface roads (Ushoedor ard Oshosdor), of the Ministries of I:terral Affairs of the Union and Autonopous Republics, and administrations of these ministries in may and oblast.
 - IIa. Road administrations of the Soviets of Ministers of Autonomous Republics
- ID. Administrations of separate roads IIb. Road sections of oblast and kray (Uproder)
 - executive committees

III. Read sectors

- MILC. Hoad sections
- IIIb. Rayon and village roads
- IV. Stretches of road and bridge
- IV. Stretches of roed and bridge fore-
- V. Maintenance tours, ferry crossings, V. Maintenance tours, ferry crossings, br i ages

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Table ". Categories of Road Sectors

surface

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| Longtha of Road Sectors (km) |
|------------------------------------|
| 100-200 |
| |

with finished surface (a) From 300 to 500

Regardless of type of eurfeco

More than 50 of reads

Types of Road Surfaces

Not less than 80% of roads with stone

150-250

(b) Leta than 300

(b) Less than 500

Vol of Traffic

Units (24 Ero)

(a) Over 500

Not less then 60% with stone surface

ш jes than 300 Mainly ground

180-300

Table 5. Length of Stretch

Typy of Surface Vol of Traffic Length of Units (24 Hrs) Stretch (km) some and finished, with 7 m-width 20 Orex 500 500-50N 25 Up to 300 30 Ground, regardless of width of surface Over 150 Up to 150

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